



Comsats University Islamabad, Lahore Campus

(Defence Road, Off Raiwind Road, Lahore)

Midterm Exam (Lab) – Spring 2024

Course Title	Compiler Construction	Course Code	CSC441	Credit Hours	3(2,1)
Instructor (s)	Gul Bano Anwar	Program Name	BSCS		
Semester	7 th	Batch	SP21	Section	B
				Date	April 05, 2024
Time Allowed	90 minutes	Maximum Marks	25		
Student Name:		Reg No.			
Important Instructions/Guidelines: <ol style="list-style-type: none">1. Submit your solution on time.2. Internet will only allowed on time of submission.3. In case of plagiarism direct zero will be marked.4. Your submission should contain cpp and word file5. On word file paste your code and place screenshot of output screen.6. Submit file SP21_BCS_XYZ.cpp.7. Return question paper after leaving the lab.					

Question no. 1

Implement the DFA: $(a+b)^*aba(a+b)^*$

Question no. 02

Implement lexical analyzer that return the tokens for variables/identifiers, exponential and keywords from the input string using the R.E of identifier and following keywords

Keywords: int | float | char | cout

Output should display in the following order:

<Lexem: Tok>